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DATE MAILED: 03/29/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/899,878	07/06/2001	Francois Martin	PHFR 000074	3333	
24737 7	590 03/29/2006		EXAM	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			LEE, Y YOUNG		
	P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER	
	•		2621		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/899,878 Examiner	MARTIN, FRANC	MARTIN, FRANCOIS	
			Art Unit		
		Y. Lee	2621	:	
	The MAILING DATE of this communication a	ppears on the cover sheet w	ith the correspondence ac	idress	
Period f	• •				
WHII - Exte afte - If No - Fail Any	IORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR or SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by stating reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a and will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this c BANDONED (35 U.S.C. § 133).		
Status					
11⊠	Responsive to communication(s) filed on 21	February 2006			
		nis action is non-final.			
3)	Since this application is in condition for allow		ters prosecution as to the	a marite ie	
ـــ ار-	closed in accordance with the practice under		•	s ments is	
Disnosit	ion of Claims		, 100 0.0.210.		
4)△	Claim(s) <u>1-7</u> is/are pending in the application				
51	4a) Of the above claim(s) is/are withdr Claim(s) is/are allowed.	awn from consideration.			
_	Claim(s) <u>1-7</u> is/are rejected. Claim(s) is/are objected to.				
7)∐ 8)☐	•	las alastias sa suisses sat			
الــا(٥	Claim(s) are subject to restriction and	or election requirement.			
Applicat	ion Papers				
9)⊠	The specification is objected to by the Examir	ner.			
10)[The drawing(s) filed on is/are: a) ac	ccepted or b) objected to	by the Examiner.		
	Applicant may not request that any objection to th	e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the corre			FR 1.121(d).	
11)	The oath or declaration is objected to by the I				
Priority (under 35 U.S.C. § 119				
12)🛛	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. 8	§ 119(a)-(d) or (f).		
	⊠ All b) Some * c) None of:		, , , , , , , , , , , , , , , , , , , ,		
	1. Certified copies of the priority document	nts have been received.			
	2. Certified copies of the priority document		opplication No.		
	3. Copies of the certified copies of the pri			Stage	
	application from the International Bure				
* 5	See the attached detailed Office action for a lis	• • • • • • • • • • • • • • • • • • • •	received.		
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Attachmen	` <i>`</i>	" 		••	
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date		
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date		nformal Patent Application (PTC)-152)	

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DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).

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- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokoyama (5,572,258) in view of Hampson et al (Motion Estimation in the Presence of Illumination Variations) for the same reasons as set forth in section 9 of the previous office action, date 7/15/04.

Yokoyama, in Figure 1, discloses a motion compensation estimating device and method that is substantially the same method of processing an input digital video signal comprising video frames so as to provide a modified digital video signal for a motion estimation step 105 as specified in claims 1-7 of the present invention, the processing method comprises the steps of computing a histogram of luminance or chrominance of original values associated with pixels belonging to a video frame (101 and col. 5-6), and correcting the original pixel values (102-104) on the basis of the histogram parameters

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to provide modified pixel values, which yields the modified digital video signal to be used by the motion estimation step 105.

With respect to claims 5-7, Yokoyama also discloses the video encoder comprising a motion estimator 105 for receiving the modified digital video signal and for supplying motion vectors 5, a data compressor 106 for receiving the input digital video signal and for deriving an encoded digital video signal from the motion vectors 5.

Although Yokoyama discloses a correcting step 103 and a step of filtering (e.g. mean or median filters) the modified digital video signal so as to provide a filtered modified digital video signal for the motion estimation step, it is noted Yokoyama differs from the present invention in that it fails to particularly disclose any analyzing steps as specified in claim 1-7. Hampson et al, however, teaches the concept of such well known analyzing sub-steps of calculating a translation parameter g and a width variation parameter h of the histogram, and the correcting step (Eq. 1) is adapted to derive the modified pixel values from a sum and a product of the original pixel values and the parameters (h and g).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, having both the references of Yokoyama and Hampson et al before him/her, to exploit the common histogram manipulation techniques as taught by Hampson et al in the processing method of Yokoyama in order to allow the prediction error to be largely reduced in comparison with the standard pel-recursive motion estimation algorithm.

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Response to Arguments

5. Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. Lee whose telephone number is (571) 272-7334. The examiner can normally be reached on (571) 272-7334.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Y. Lee

Primary Examiner Art Unit 2621